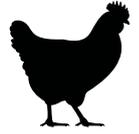


MEVAC™

ND

RESPIRATORY
INTEGRITY



Inactivated water in oil (W/O) emulsified virus vaccine for immunization against Newcastle Disease Genotype II virus

INTRODUCTION

Respiratory diseases are among the most devastating diseases in poultry industry and are, in most cases, the result of more than one pathogen involved. Among several avian viruses with tropism of the respiratory tract, Newcastle disease virus (NDV) is one of the most important viruses of poultry worldwide.¹

Due to the single stranded nature of the genome, the ND virus can evolve rapidly, leading to high genetic variability in circulating virus strains. NDV affects poultry birds of all ages and breeds, while other major respiratory pathogen, such as Infectious Bronchitis Virus (IBV), is more severe in young chicks.²

The immunology of domestic birds has been well studied and numerous vaccines have been developed against NDV. Most of these vaccines are either inactivated vaccines or live attenuated vaccines. Inactivated vaccines are designed to boost humoral response initially triggered with live vaccines.²

Using various strategies such as combination of live attenuated and inactivated vaccines will lead to effective programs that contribute to food security and the economic development of many countries on a global scale.²

COMPOSITION (before inactivation)

- Inactivated NDV genotype II LaSota strain [11478AF] $\geq 8.0 \log_{10} \text{EID}_{50}$.

TARGET SPECIES

Chickens.

INDICATIONS

For booster immunization of commercial chickens against Newcastle Disease.

VACCINATION PROGRAM

Birds can be vaccinated from seven days of age onwards, as per advice from your poultry veterinarian. For optimal booster effects, the birds should be primed with live NDV vaccines.

CONSIDERATIONS

- The vaccine should not be used if chickens are diseased or immunosuppressed.
- Do not mix with any other veterinary medicinal product.
- No side-effect has been observed during the rearing period following administration of double the recommended dose of vaccine.
- The safety of the veterinary medicinal product has not been established during lay.
- Vaccine bottles shall be shaken well before use.
- Use sterile injection equipment.

WITHDRAWAL

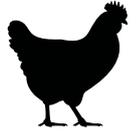
Zero days.

DOSAGE

The vaccine dose (0.5 mL/bird) should be administered subcutaneously in the lower part of the neck or intramuscularly in the thigh or breast muscles.

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PRESENTATION

MEVAC™ ND is packed and presented in 500 mL (1000 doses) polyethylene terephthalate (PET) bottles.

ADMINISTRATION

Before use, the vaccine should be shaken well to ensure proper mixing. Sterile injection equipment should be used to avoid contamination.

- Subcutaneous injection: in the lower part of the neck. The needle should be inserted just under the skin in a direction away from the head and in a straight line with the neck.
- Intramuscular injection: in the breast muscles by inserting the needle with a 45° angle to avoid intraperitoneal injection.

STORAGE PRECAUTIONS

- Store and transport refrigerated (+2°C to +8°C).
- Do not freeze.
- Store in a dry place protected from direct sunlight.
- Do not use this product after the expiry date.
- Shelf life after first opening the bottle: 3 hours.

References

1. Malik YS, Patnayak DP, Goyal SM. Detection of three avian respiratory viruses by single-tube multiplex reverse transcription-polymerase chain reaction assay. *J Vet Diagn Invest.* 2004.
2. Ike et al 2021. Towards Improved Use of Vaccination in the Control of Infectious Bronchitis and Newcastle Disease in Poultry: Understanding the Immunological Mechanisms. *Vaccines* 2021, 9(1), 20; <https://doi.org/10.3390/vaccines9010020>.

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PTP-12510